

1 Attorney Docket No. 82736

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3 SODIUM GALLIUM OXIDE ELECTROLYTE

4 ADDITIVE FOR ALUMINUM ANODE ACTIVATION

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6 ABSTRACT OF THE DISCLOSURE

7 An additive for an aluminum-based semi-fuel cell system  
8 includes a combination of components including gallium,  
9 oxygen, and a sodium component dissolvable an alkaline  
10 electrolyte solution such as seawater and sodium hydroxide.  
11 These components form sodium gallium oxide and prevent or  
12 reduce formation of an oxide layer on a surface of an aluminum  
13 anode in the alkaline electrolyte of the semi-fuel cell  
14 system.